

AS

Table 1

Variable	Mean	SD	Range
Age	67.8	9.0	45-85
Gender	Male		
Females	10		
Marital status	Married		
Widowed	10		
Divorced	10		
Single	10		
Educational level	High school		
Bachelor's degree	10		
Master's degree	10		
PhD	10		
Occupation	Retired		
Unemployed	10		
Employed	10		
Income	\$10,000		
\$10,000-\$20,000	10		
\$20,000-\$30,000	10		
\$30,000-\$40,000	10		
\$40,000-\$50,000	10		
\$50,000-\$60,000	10		
\$60,000-\$70,000	10		
\$70,000-\$80,000	10		
\$80,000-\$90,000	10		
\$90,000-\$100,000	10		
>\$100,000	10		

- 105557-020504
1. (Amended) A combinatorial screening apparatus comprising:
 - a) a cell body containing a fluid inlet;
 - b) a fluid permeable, conductive, catalyst array support positioned adjacent to the cell body, said catalyst array support having multiple locations for supporting solids;
 - c) a catalyst mask positioned adjacent to the catalyst array support, said catalyst mask [having material removed to form] defining holes [where the holes are] arranged in alignment with the multiple locations for supporting solids of the catalyst array support; and
 - d) a cell cover positioned adjacent to the catalyst array support, said cell cover [having material removed to allow] defining an opening for monitoring of the solids.
 3. (Amended) The apparatus of Claim 1 further comprising a [gas] diffuser positioned between the catalyst array support and fluid inlet of the cell body.
 13. (Amended) A combinatorial screening apparatus comprising:
 - a) a catalyst array support backing;
 - b) a conductive catalyst array support positioned adjacent to the support backing, said catalyst array support having multiple locations for supporting solids;
 - c) a catalyst mask positioned adjacent to the catalyst array support, said catalyst mask [having material removed to form] defining holes [where the holes are] arranged in alignment with the multiple locations for supporting solids of the catalyst array support; and
 - d) a cell cover positioned adjacent to the catalyst array support, said cell cover [having material removed to allow] defining an opening for monitoring of the solids.
 17. (Amended) A method for screening an array of solids for electrocatalytic activity comprising:
 - a) depositing the solids of the array on a catalyst array support;

- b) placing a catalyst mask over the catalyst array support, said mask [having material removed to form] defining holes [where the holes are] arranged in the same pattern as the solids of the array;
- c) contacting the array of solids on the catalyst array support masked by the catalyst mask with a reagent fluid and a fluid containing an ion concentration indicator;
- d) applying a potential to the catalyst array support;
- e) applying excitation radiation to said catalyst array support;
- f) measuring emission radiation emitting through the holes of the catalyst mask; and
- g) determining electrocatalytic activity of the solids in the array from the emission radiation measurements.

25. (Amended) A bulk catalyst testing apparatus comprising:

- a) a bulk cell body containing a first and a second fluid inlet and a first and a second fluid outlet;
- b) a fluid permeable bulk catalyst support structure having a catalyst thereon positioned adjacent to the bulk cell body and in alignment with the first fluid inlet and the first fluid outlet of the bulk cell body; and
- c) a bulk cell cover positioned adjacent to the bulk catalyst support structure, said bulk cell cover [having material removed] defining a cavity to allow for fluid contact with the catalyst and monitoring of the catalyst.